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TRANSMITTAL LETTER TO THE UNITED STATES **DESIGNATED/ELECTED OFFICE (DO/EO/US)**

ATTORNEY'S DOCKET NUMBER 101.0049US/PCT 4J.S. APPUICATION NO. (If known, see 37 CFR 1.5)

CONCERNING A SUBMISSION UNDER 35 U.S.C. 371										
	TIONAL APPLICATION NO. 303/005372	INTERNATIONAL FILING DATE 11 December 2003(11.12.2003)	PRIORITY DATE CLAIMED 20 December 2002 (20.12.2002)							
TITLE OF INVENTION										
System and Method to Minimize Modulation Instability										
APPLICANT(S) FOR DO/EO/US Peter C. Wait, et al.										
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:										
1.	This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.									
2.	This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.									
3.	This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.									
	The US has been elected (Article 31).									
5.	A copy of the International Application as filed (35 U.S.C. 371(c)(2))									
	a. Lulis attached hereto (required only if not communicated by the International Bureau).									
	b has been communicated by the International Bureau.									
	c is not required, as the application was filed in the United States Receiving Office (RO/US).									
6. ⊔	An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).									
	a. is attached hereto.									
7 V	b. Lightas been previously submitted under 35 U.S.C. 154(d)(4).									
7.	Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))									
		red only if not communicated by the Internat	ional Bureau).							
	b. have been communicated by the International Bureau.									
	 c. have not been made; however, the time limit for making such amendments has NOT expired. d. have not been made and will not be made. 									
8. 🗆			ialo 10 /25 I I S C 271/oV2\\							
。 。 。	An eath or declaration of the inventor	e amendments to the claims under PCT Art	icie 19 (33 U.S.C. 37 I(c)(3)).							
5. <u></u>	All caution declaration of the inventor	(5) (55 0.5.0. 57 1(0)(4)).								
10	An English language translation of the Article 36 (35 U.S.C. 371(c)(5)).	e annexes of the International Preliminary E	xamination Report under PCT							
Items	11 to 20 below concern document(s) or information included:								
11.	An Information Disclosure Statement	under 37 CFR 1.97 and 1.98.								
12.	An assignment document for recording	g. A separate cover sheet in compliance wit	th 37 CFR 3.28 and 3.31 is included.							
13.	A preliminary amendment.									
14.	An Application Data Sheet under 37 C	CFR 1.76.								
15.	A substitute specification.		1)							
16.	A power of attorney and/or change of									
17.	A computer-readable form of the sequ	uence listing in accordance with PCT Rule 1	3ter.2 and 37 CFR 1.821- 1.825.							
18.		ational Application under 35 U.S.C. 154(d)(
19. 🔲	A second copy of the English languag	e translation of the international application	under 35 U.S.C. 154(d)(4).							
20.	Other items or information: Reply to	Invitation to Correct Defects with Corre	ected Claims; Postcard							

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to ine (and by the user) to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Page 1 of 2

JC20 Rec'd PCT/PT0 1 6 JUN 2015 PTO-1390 (Rev. 02-2005)
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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U.S. APPLICATION NO (Exhaurt see 21 CFR 1.5)			INTERNATIONAL APPLICATION NO.		ATTORNEY'S DOCKET NUMBER				
20/33/2			PCT/GB03/005372		101.0049US/PCT				
The following	ig fees have b		CALCULATIONS	PTO USE ONLY					
21. 🗹 Basic na	tional fee	\$ 300.00							
22. Examinal If International prelim PCT Article 33(1)-All other situations	ninary examina (4)	\$ 200.00							
23. Search f Search fee (37 CFR International S International Search All other situations	1.445(a)(2)) ha Searching Aut Report prepar	\$ 400.00							
тот	TAL OF 21, 22	\$ 900.00							
Additional fee for sequence listing The fee is \$250	specification or computer								
Total Sheets E			additional 50 or fraction up to a whole number)	RATE					
- 100 =	/50 =			x \$250	\$				
Surcharge of \$130.00 claimed priority date		\$ 130.00							
CLAIMS	NUMB	ER FILED	NUMBER EXTRA	RATE	\$				
Total claims	34	- 20 =	14	× \$ 50	\$ 700.00				
Independent claims	2	- 3 =	-1	× \$200	\$				
MULTIPLE DEPEND		if applicable)		+ \$360	\$				
			TOTAL OF ABOVE	CALCULATIONS =	\$ 1,600.00				
Applicant claims	small entity st	atus. See 37 CFF	1.27. Fees above are reduc	ed by ½.		i.			
				SUBTOTAL =	\$				
Processing fee of \$13 claimed priority date		\$	· 						
		\$ 1,600.00							
Fee for recording the by an appropriate co		\$ 40.00							
			TOTAL F	EES ENCLOSED =	\$ 1,640.00				
		Amount to be refunded:	\$						
					Amount to be charged:	\$ 1,640.00			
a. A check in the amount of \$ to cover the above fees is enclosed.									
b. Please charge my Deposit Account No. 50-2475 in the amount of \$ 1,640.00 to cover the above fees. A duplicate copy of this sheet is enclosed.									
c. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-2475 A duplicate copy of this sheet is enclosed.									
d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.									
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.									
SEND ALL CORRESPONDENCE TO:									
Jaime A. Castano									
IP Law Department Schlumberger Reservoir Completions Jaime A. Castano									
14910 Airline Road NAME									
Rosharon, Texas 77583 41,660 REGISTRATION NUMBER									

10/539144 JC20 Rec'd PCT/PTO 1 6 JUN 2005

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Peter C. Wait, et al.

Attorney Docket No.:

101.0049US/PCT

Serial No.:

Art Unit:

Filed:

Examiner:

For:

SYSTEM AND METHOD TO MINIMIZE MODULATION INSTABILITY

Mail Stop PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

CERTIFICATE OF MAILING

I hereby certify that the attached patent application, consisting of:

- In Transmittal Letter (1 page),
- E Fee Calculation Sheet (1 page in triplicate),
- E Copy of the International Application as filed with Formal Drawings (17 pages total),
- Declaration of Inventors Wait and Hartog (8 pages),
- Recordation Form Cover Sheet (in duplicate) with executed Assignments (6 pages),
- Power of Attorney (1 page), and
- Reply to Invitation to Correct Defects in the International Application with corrected claims (8 pages)

is being deposited with the United States Postal Service as Express Mail No. EV 335954964 US in an envelope addressed to: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

June 16, 2005

Date

Rhonda J. Smith Schlumberger Technology Corporation 14910 Airline Road Rosharon, Texas 77583-1590 (281) 285-5381 (281) 285-5537 Fax

10/539144

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Intellectual Property Department

Schlumberger WCP Limited Gamma House Enterprise Road Chilworth Science Park Southampton S016 7NS United Kingdom Direct Dial: 44 (0) 2380 765573 Facsimile: 44 (0) 2380 765505 Schlumberger

24.02.2004

The Patent Office Concept House Cardiff Road Newport S Wales NP10 8QQ

Re: Reply to Invitation to Correct Defects in the International Application

PCT Application No.: PCT/GB2003/005372

International Filing Date: 11/12/2003

Title: SYSTEM AND METHOD TO MINIMIZE MODULATION

INSTABILITY

Applicant: Sensor Highway Limited

Our File: 101.0049PCT

Dear Sirs,

In response to the Invitation to Correct Defects mailed 03 January 2004 (copy attached), Applicant hereby submits the original Power of Attorney forms by Sensor Highway Limited, Peter C. Wait and Arthur H. Hartog.

The Invitation to Correct Defects stated in Annex B1 requires the Applicant to correct the claim numbers since claim number 13 is missing. Enclosed are pages 11-14 in triplicate with the correct claim numbers. Applicant requests the Receiving Office to replace the previously sent pages 11-14 with the enclosed corrected pages.

Yours Faithfully,

Brian D Stoole

Agent for the Applicant